

## Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-305 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Mr. Robert Fariole
Mailing Address:	3330 West Friendly Ave. Greensboro, NC 27410
Facility Name:	Burlington Industries, Inc.
DEQ Registration Number:	30401
Facility Location:	899 Burlington Ind. Drive, Mecklenburg County, Virginia
AIRS Identification No.:	51-117-0001

<u>Permit Number</u>	<u>Effective Date</u>	<u>Expiration Date</u>
VA-30401	December 14, 2001	December 14, 2006

---

Dennis H. Treacy  
Director, Department of Environmental Quality

---

Signature Date

Table of Contents, 3 pages  
Permit Conditions, 45 pages

## Table of Contents

<b>I. Facility Information.....</b>	<b>1</b>
<b>II. Emission Units.....</b>	<b>2</b>
A. Significant Emissions Units.....	2
B. Insignificant Emission Units.....	6
<b>III. Fuel Burning Equipment Requirements – Boilers BL1, BL2, BL3, BL5, BL6, BL7, BL8.....</b>	<b>7</b>
Table III.....	7
A. Limitations.....	7
B. Periodic Monitoring.....	9
C. Recordkeeping and Reporting .....	10
<b>IV. Process Equipment Requirements – Dye House- Low Pressure Dyeing .....</b>	<b>11</b>
A. Limitations.....	11
B. Recordkeeping .....	11
<b>V. Process Equipment Requirements – Kenyon (TF4) and Relaxed Dryer (DR16).....</b>	<b>11</b>
A. Limitations.....	11
B. Periodic Monitoring.....	13
C. Recordkeeping .....	13
<b>VI. Process Equipment Requirements – Monforts Tenter Frame (TF5) .....</b>	<b>14</b>
A. Limitations.....	14
B. Periodic Monitoring.....	15
C. Recordkeeping .....	16
<b>VII. Process Equipment Requirements – Monforts Tenter Frame (TF6) .....</b>	<b>16</b>
A. Limitations.....	16
B. Periodic Monitoring.....	17
C. Recordkeeping .....	18
<b>VIII. Process Equipment Requirements – Famatex Tenter Frames(TF1 and TF3) .....</b>	<b>19</b>
A. Limitations.....	19
B. Periodic Monitoring.....	19
C. Recordkeeping .....	20
<b>IX. Process Equipment Requirements – Bruckner Tenter Frame (TF7).....</b>	<b>20</b>
A. Limitations.....	20
B. Periodic Monitoring.....	21
C. Recordkeeping .....	22
<b>X. Process Equipment Requirements – Bruckner Tenter Frame (TF8).....</b>	<b>22</b>

A. Limitations .....	22
B. Periodic Monitoring.....	23
C. Recordkeeping .....	24
<b>XI. Process Equipment Requirements – Bruckner Tenter Frame (TF9).....</b>	<b>24</b>
A. Limitations .....	24
B. Periodic Monitoring.....	25
C. Recordkeeping .....	25
<b>XII. Process Equipment Requirements – Dryer/Carbonizer (DR14) .....</b>	<b>26</b>
A. Limitations .....	26
B. Periodic Monitoring.....	26
C. Recordkeeping .....	27
<b>XIII. Process Equipment Requirements – Kenyon Pin Dryer (DR10).....</b>	<b>28</b>
A. Limitations .....	28
B. Periodic Monitoring.....	28
C. Recordkeeping .....	29
<b>XIV. Process Equipment Requirements – Kenyon Dryer/carbonizer (DR17) .....</b>	<b>29</b>
A. Limitations .....	29
B. Periodic Monitoring.....	30
C. Recordkeeping .....	30
<b>XV. Process Equipment Requirements –Flame Singer (FS22A).....</b>	<b>31</b>
A. Limitations .....	31
B. Periodic Monitoring.....	32
C. Recordkeeping .....	33
<b>XVI. Process Equipment Requirements – Wool Combing (CM) .....</b>	<b>33</b>
A. Recordkeeping .....	33
<b>XVII. Process Equipment Requirements – Final Inspection (FI) .....</b>	<b>34</b>
A. Recordkeeping .....	34
<b>XVIII. Process Equipment Requirements - Carver Greenfield Wastewater Pretreatment (CG)</b>	
<b>34</b>	
A. Recordkeeping .....	34
<b>XIX. Process Equipment Requirements –Wastewater Treatment (WW) .....</b>	<b>34</b>
A. Recordkeeping .....	34
<b>XX. Permit Shield &amp; Inapplicable Requirements .....</b>	<b>35</b>
<b>XXI. General Conditions .....</b>	<b>35</b>

A.	Enforceability.....	35
B.	Permit Expiration.....	35
C.	Recordkeeping and Reporting .....	36
D.	Annual Compliance Certification .....	37
E.	Permit Deviation Reporting.....	38
F.	Failure/Malfunction Reporting .....	38
G.	Severability .....	38
H.	Duty to Comply.....	39
I.	Need to Halt or Reduce Activity not a Defense.....	39
J.	Permit Action for Cause .....	39
K.	Property Rights .....	40
L.	Duty to Submit Information.....	40
M.	Duty to Pay Permit Fees .....	40
N.	Fugitive Dust Emission Standards.....	41
O.	Startup, Shutdown, and Malfunction .....	41
P.	Alternative Operating Scenarios.....	42
Q.	Inspection and Entry Requirements .....	42
R.	Reopening For Cause.....	42
S.	Permit Availability.....	43
T.	Transfer of Permits .....	43
U.	Malfunction as an Affirmative Defense.....	43
V.	Permit Revocation or Termination for Cause.....	44
W.	Duty to Supplement or Correct Application .....	44
X.	Stratospheric Ozone Protection .....	45
Y.	Accidental Release Prevention .....	45
Z.	Changes to Permits for Emissions Trading.....	45
AA.	Emissions Trading .....	45

## **I. Facility Information**

### **Permittee**

Burlington Industries, Inc.  
3330 West Friendly Ave.  
Greensboro, NC 27410

### **Responsible Official**

Robert Fariole  
Director, Corporate Engineering

### **Facility**

Burlington Industries, Inc.  
899 Burlington Ind. Drive  
Mecklenburg County

### **Contact Person**

Mike Garlick  
Division Environmental Engineer  
336-379-2941

Kenny French  
Plant Engineer  
434-374-3434

**AIRS Identification Number:** 51-117-0001

**Facility Description:** SIC Code 2231 and 2264 – This facility converts raw wool to wool top and dyes/finishes wool and wool blend fabrics. They scour, card, and comb the wool. Woven wool and wool blend fabric is finished in various ways (cleaned, dyed, dried, heat set, sheared, singed, dry finished, and inspected). Fabric weaving is conducted on a sample basis only.

## II. Emission Units

Equipment to be operated consists of:

### A. Significant Emissions Units

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
<b>Fuel Burning Equipment</b>							
BL1	BL4	Cleaver Brooks DL94 (Residual/Distillate Fuel oil fired) 1973	90 MMBtu/hr	None	N/A	N/A	11/16/1991 Agreement with DAPC/SIP
BL2	BL4	Cleaver Brooks DL94 (Residual/Distillate Fuel oil fired) 1974	90 MMBtu/hr	None	N/A	N/A	11/16/1991 Agreement with DAPC/SIP
BL3	BL4	Keeler Boiler SN 11662 (Coal fired) 1947	60 MMBtu/hr	Dual Mechanical collector system	CDBL3	PM, PM10	11/16/1991 Agreement with DAPC/SIP
BL5	BL4	Cleaver Brooks DG (Residual/Distillate Fuel Oil fired) 1968	60 MMBtu/hr	None	N/A	N/A	11/16/1991 Agreement with DAPC/SIP
BL6	BL4	Erie City Type VC (Coal fired) 1974	174 MMBtu/hr	2 Zurn Centrifugal Collectors in series		PM, PM10	November 29, 1994 permit and 11/16/1991 Agreement with DAPC/SIP
BL7	BL7	Eclipse (Residual/Distillate Fuel Oil/propane/natural gas fired) 1974	17 MMBtu/hr	None	N/A	N/A	September 5, 1974 permit and 11/16/1991 Agreement with DAPC/SIP
BL8	BL8	Eclipse (Propane/natural gas fired) 1971	7 MMBtu/hr	None	N/A	N/A	11/16/1991 Agreement with DAPC/SIP

<b>TENTER FRAMES</b>							
TF1	TF1	Famatex Dryer/Heat Set (4 MMBtu/hr – LPG/NG)	3,600 yds/hr	ESP/Smog Hog	CDFF-PO	Opacity	
TF3	TF3	Famatex Dryer/Heat Set (4 MMBtu/hr – LPG/NG)	3,600 yds/hr	ESP/Smog Hog	CDFF-PO	Opacity	
TF4	TF4	Kenyon 6.3 MMBtu/hr (LPG/natural gas fired)	5,000 yds/hr	JHK Fume Oxidizer JK Systems, Inc.		Opacity	04/14/1995
TF5	TF5	Monforts Model 6F Twin Air (11.5 MMBtu/hr Natural gas/propane)	3,600 yds/hr	JHK Fume Oxidizer JK Systems, Inc.		Opacity	2/17/2000
TF6	TF6	Monforts natural gas/propane fired (11.5 MMBtu/hr)	4,800 yds/hr	JHK Fume Oxidizer JK Systems, Inc.		Opacity	12/23/1996
TF7	FF-PN	Bruckner Dryer/Heat Set (indirect heat from Eclipse)	3,600 yds/hr	JHK fume oxidizer JK Systems, Inc.	CDFF-PN	Opacity	2/21/1975
TF8	FF-PN	Bruckner Dryer/Heat Set (indirect heat from Eclipse)	3,600 yds/hr	American Air Filter ESP	CDFF-PN	Opacity	04/05/1976
TF9	FF-PN	Bruckner Dryer/Heat Set (4.5 MMBtu/hr – LPG/NG)	5,000 yds/hr	JK Systems, Inc. JHK fume oxidizer	CDFF-PN	Opacity	04/05/1976
DR16	DR16	Relaxed Dryer (steam heated)	2,100 yds/hr	None	N/A	N/A	4/14/1995
<b>Flame Singer</b>							
FS22A	FS22a ,FS22 b, and FS22c	Osthoff Flame Singer (LPG/natural gas fired)	0.4 MMBtu/hr rated at 10,800 yds/hr	FS22b – Osthoff- Senge HL60 cyclone FS22c – Osthoff- Senge NF1 water spray scrubber	CDFS1  CDFS2	PM	11/10/1993
<b>Fabric Finishing and Dyeing</b>							
531	1712	Low pressure dye beck (1993)	2 ft long	NA	NA	NA	11/03/2000
536	1747	Low pressure dye beck (1993)	2 ft long	NA	NA	NA	11/03/2000
537	1747	Low pressure dye beck (1993)	2 ft long	NA	NA	NA	11/03/2000
549	1719	Low pressure dye beck (1991)	2 ft long	NA	NA	NA	11/03/2000
550	1719	Low pressure dye beck (1993)	2 ft long	NA	NA	NA	11/03/2000
519	1724	Low pressure dye beck (1991)	4 ft long	NA	NA	NA	11/03/2000
520	1709	Low pressure dye beck	4 ft long	NA	NA	NA	NA

521	1709	Low pressure dye beck	4 ft long	NA	NA	NA	NA
527	1714	Low pressure dye beck	4 ft long	NA	NA	NA	NA
532	1703	Low pressure dye beck (1991)	4 ft long	NA	NA	NA	11/03/2000
533	1703	Low pressure dye beck (1991)	4 ft long	NA	NA	NA	11/03/2000
518	1724	Low pressure dye beck	6 ft long	NA	NA	NA	NA
523	1712	Low pressure dye beck (1991)	6 ft long	NA	NA	NA	11/03/2000
526	1714	Low pressure dye beck	6 ft long	NA	NA	NA	NA
534	1726	Low pressure dye beck (1991)	6 ft long	NA	NA	NA	11/03/2000
535	1726	Low pressure dye beck (1991)	6 ft long	NA	NA	NA	11/03/2000
553	1753	Low pressure dye beck	6 ft long	NA	NA	NA	NA
510	1710	Low pressure dye beck	10 ft long	NA	NA	NA	NA
511	1710	Low pressure dye beck	10 ft long	NA	NA	NA	NA
512	1704	Low pressure dye beck (1991)	10 ft long	NA	NA	NA	11/03/2000
514	1706	Low pressure dye beck	10 ft long	NA	NA	NA	NA
515	1706	Low pressure dye beck	10 ft long	NA	NA	NA	NA
522	1723	Low pressure dye beck	10 ft long	NA	NA	NA	NA
545	1720	Low pressure dye beck	10 ft long	NA	NA	NA	NA
546	1721	Low pressure dye beck	10 ft long	NA	NA	NA	NA
547	1722	Low pressure dye beck	10 ft long	NA	NA	NA	NA
551	1701	Low pressure dye beck	10 ft long	NA	NA	NA	NA
552	1702	Low pressure dye beck	10 ft long	NA	NA	NA	NA
571	1716	Low pressure dye beck	10 ft long	NA	NA	NA	NA
572	1716	Low pressure dye beck	10 ft long	NA	NA	NA	NA
573	1717	Low pressure dye beck	10 ft long	NA	NA	NA	NA
574	1717	Low pressure dye beck	10 ft long	NA	NA	NA	NA
576	1715	Low pressure dye beck	10 ft long	NA	NA	NA	NA
577	1707	Low pressure dye beck	10 ft long	NA	NA	NA	NA
578	1708	Low pressure dye beck	10 ft long	NA	NA	NA	NA
DR10	TF10	Kenyon – Pin Dyer (steam heated)	4,000 yds/hr	NA	NA	NA	NA
DR14	FF-PO	Carbonizer (steam heated)	3,500 yds/hr	NA	NA	NA	NA



DR15	FF-PO	Carbonizer (steam heated)	3,500 yds/hr	NA	NA	NA	NA
DR17	FF-PO	Kenyon Carbonizer (steam heated)	3,500 yds/hr	NA	NA	NA	NA
<b>Other</b>							
CM		Wool combing process	75,000 lb/day	None	NA	NA	NA
FI		Final Inspection	100,000 yds/day	None	NA	NA	NA
CG	Fugitive	Carver Greenfield Wastewater Pretreatment	80 gal/min of wastewater	None	NA	NA	NA
WW	Fugitive	Wastewater treatment	7 MGD	None	NA	NA	NA

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## B. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation 9 VAC	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
DF	Dry finishing (includes shearing, steaming, and pressing)	5-80-720 B.1.	PM	Unknown
528	2 ft long low pressure dye beck	5-80-720 B.2.	VOC, HAPs	< 5 tons/yr
529	2 ft long low pressure dye beck	5-80-720 B.2.	VOC, HAPs	< 5 tons/yr
530	2 ft long low pressure dye beck	5-80-720 B.2.	VOC, HAPs	< 5 tons/yr
548	2 ft long low pressure dye beck	5-80-720 B.2.	VOC, HAPs	< 5 tons/yr
SD	Sample/lab dyeing (<1ft long dye beck)	5-80-720 B.2.	VOC, HAPs	< 5 tons/yr
ST1	#6 fuel oil storage tank	5-80-720 B.2	VOC	150,000 gal.
ST2A	Storage tank (Empty but has contained fuel oil)	5-80-720 B.2	VOC	25,000 gal.
ST2B	Storage tank (Empty but has contained fuel oil)	5-80-720 B.2	VOC	16,000 gal
ST3	Used oil storage tank	5-80-720 B.2	VOC	2,000 gal.
ST4	Empty storage tank (formerly #6)	5-80-720 B.2	VOC	500,000 gal.
ST5	Empty storage tank (formerly #2)	5-80-720 B.2	VOC	150,000 gal.
ST6	Gasoline storage tank	5-80-720 B.2.	VOC	1,500 gal.
ST7	Diesel	5-80-720 B.2.	VOC	9,700 gal.
ST8	Petroleum Hydrocarbon tank	5-80-720 B.2.	VOC	15,000 gal.
ST10	Acetic acid	5-80-720 B.2.	VOC	6,000 gal.
ST11	Sodium acetate	5-80-720 B.2.	VOC	10,000 gal.
ST12	Sulfuric acid	5-80-720 B.1.	SO <sub>2</sub>	6,000 gal.
ST13	Carrier storage tank	5-80-720 B.2.	VOC	6,000 gal.
ST14	Carrier storage tank	5-80-720 B.2.	VOC	6,000 gal.
ST15	Diesel	5-80-720 B.2.	VOC	280 gal.
ST16	Parts cleaner tank	5-80-720 B.2.	VOC	200 gal.
ST17	Kerosene	5-80-720 B.2.	VOC	150 gal.
ST18	Kerosene	5-80-720 B.2.	VOC	280 gal.
ST19	Sulfuric acid – CG	5-80-720 B.1.	SO <sub>2</sub>	3,000 gal.
ST20	Pac 2 oil – Combing	5-80-720 B.2.	VOC	6,000 gal.
ST24	Parts cleaner tank	5-80-720 B.2.	VOC	500 gal.

	Combing			
ST25	Used oil – Combing	5-80-720 B.2.	VOC	1,000 gal.
ST26	Gasoline – Combing	5-80-720 B.2.	VOC	1,000 gal.
ST27	30% sulfuric acid –CG	5-80-720 B.1.	SO <sub>2</sub>	2,000 gal.
ST28	Anhydrous Ammonia – CG	5-80-720 A.42	N/A	1,000 gal
PR	Preparation and washing	5-80-720 B.2.	VOC, HAP	< 5 ton/yr
SL	Sample slashing	5-80-720 B.2.	VOC	< 5 ton/yr
LH	Lint house	5-80-720 B.1.	PM	< 5 ton/yr
CR	Carding area	5-80-720 B.2.	VOC	< 5 ton/yr
WS	Wool scouring	5-80-720 B.2.	VOC	< 5 ton/yr
SW	Sample weaving	5-80-720 B.2.	VOC	< 5 ton/yr
DG	Degreasing	5-80-720 B.2.	VOC	< 5 ton/yr
YP	Yarn production	5-80-720 B.2.	VOC	< 5 ton/yr
SP	Weaving and spinning	5-80-720 B.2.	VOC	< 5 ton/yr
PD1-PD40	Pressure Dyeing (40 units)	5-80-720 B.2.	VOC, HAPS	< 5 ton/yr total for all 40 units
FS22B	Flame singer	5-80-720 C.2.	PM	0.3 MMBtu/hr burners

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

### III. Fuel Burning Equipment Requirements – Boilers BL1, BL2, BL3, BL5, BL6, BL7, BL8

**Table III**

Unit ID	Reference	PM-10	
		Lb/hr	Ton/yr
BL1	Reference A	16.2	N/A
BL2	Reference A	16.2	N/A
BL3	Reference A	15.8	N/A
BL5	Reference A	9.0	N/A
BL6	Reference A	45.7	N/A

Reference A: 9 VAC 5 Chapter 40 Article 8 and DAPC letter dated January 24, 1980  
PM=PM10

#### A. Limitations

1. The permittee shall comply with an annual plantwide SO<sub>2</sub> emission limit of 4,849 tons. Compliance with this limit shall be determined on a continuous, rolling 12-month basis through the use of fuel sulfur content and the quantity of fuel consumed. The following emission factors shall be used to determine compliance with the annual SO<sub>2</sub> emission limit:

- a. For residual oil fired units:  
 $\text{SO}_2 \text{ lbs/1000 gallons oil burned} = (158.6)(\%S)$
- b. For distillate oil fired units:  
 $\text{SO}_2 \text{ lbs/1000 gallons burned} = (143.6)(\%S)$
- c. For coal fired units:  
 $\text{SO}_2 \text{ lbs/ton coal burned} = (39)(\%S)$
- d. For LPG (propane) fired units:  
 $\text{SO}_2 \text{ lbs/1000 gallons LPG (propane) burned} = (86.5)(\%S)$
- e. For natural gas fired units:  
 $\text{SO}_2 \text{ lbs/MM ft}^3 \text{ burned} = 0.6$

(9 VAC 5-80-110 and Section D. 2. of 11/19/1991 Agreement with Burlington Industries, and 40 CFR 52.2465 (c)(96))

- 2. The permittee shall comply with all applicable State Air Pollution Control Board Regulations including, but not limited to, Rule 4-8: "Emission Standards for Fuel Burning Equipment." This rule establishes that no owner or other person shall cause or permit to be discharged into the atmosphere from any fuel burning equipment installation any sulfur dioxide emissions in excess of the following limit:

$S = 2.64K$  where:

$S$  = allowable emission of sulfur dioxide expressed in pounds per hour.

$K$  = heat input at total capacity expressed in Btu x  $10^6$  per hour.

(9 VAC 5-80-110 and Section D. 3. of 11/19/1991 Agreement with Burlington Industries, and 40 CFR 52.2465 (c)(96))

- 3. The maximum average sulfur content of coal burned in the boilers (combined) shall not exceed 1.2 percent by weight as received on a continuous, rolling 12-month basis. The minimum heat content shall be 12,500 Btu/lb on a dry basis.

(9 VAC 5-80-110 and Section D. 4. of 11/19/1991 Agreement with Burlington Industries, and 40 CFR 52.2465 (c)(96))

- 4. The permittee shall limit the amount of coal burned in the boilers (combined) to not more than 81,994 tons during any continuous, rolling 12-month period.

(9 VAC 5-80-110 and Section D. 5. of 11/19/1991 Agreement with Burlington Industries, and 40 CFR 52.2465 (c)(96))

5. The permittee shall not operate boiler BL7 and boiler BL8 simultaneously.  
(9 VAC 5-80-110 and Section D. 6. of 11/19/1991 Agreement with Burlington Industries, and 40 CFR 52.2465 (c)(96))
6. PM emissions from coal fired boiler (BL3) shall be controlled by the use of a dual mechanical collector system, or equivalent, with a design particulate control efficiency of at least 90%.  
(9 VAC 5-80-110)
7. PM emissions from coal fired boiler (BL6) shall be controlled by the use of two Zurn centrifugal collectors in series, or equivalent, with a design particulate control efficiency of at least 90%.  
(9 VAC 5-80-110)
8. The approved fuels for BL7 boiler are #6 fuel oil and natural gas/propane. The maximum sulfur content of the oil to be burned in BL7 shall not exceed 2.4 percent by weight per shipment. A change in the fuels may require a permit to modify and operate.  
(9 VAC 5-80-110 and DAPC letter dated December 22, 1977)
9. When only boiler BL3 and/or BL5 are operating and boilers BL1, BL2, and BL6 are not operating, the visible emissions from the boiler stack (BL4) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A). When any of boilers BL1, BL2, and BL6 are operating, the visible emissions from the boiler stack (BL4) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during periods of startup, shutdown, or malfunction.  
(9 VAC 5-40-80, 9 VAC 5-50-80, and 9 VAC 5-80-110)
10. Visible Emissions from the BL7 boiler stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during periods of startup, shutdown, or malfunction.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)

## **B. Periodic Monitoring**

1. At least one time per week an observation of the presence of visible emissions from the BL4 and BL7 stacks shall be made. The presence of visible emissions shall require the permittee to:

- a. take timely corrective action such that the boiler(s), with visible emissions, resumes operation with no visible emissions, or,
- b. conduct a visible emission evaluation (VEE) on the stacks, with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the boiler resumes operation within the 20% opacity limit.
- c. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a boiler stack observation log for each boiler to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the boiler(s) has not been operated for any period during the week, it shall be noted in the boiler log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

2. At a frequency not to exceed five (5) years, the permittee shall conduct stack tests for PM and concurrent visible emission examination from the Erie City Type VC (BL6) boiler to demonstrate compliance with the particulate emission limit contained in Table III of this permit. The tests shall be performed within 180 days after the effective date of this permit. The tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-40-30. The details of the tests shall be arranged with the South Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the South Central Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-40-30 and 9 VAC 5-80-110 E)

### **C. Recordkeeping and Reporting**

The permittee shall maintain records of the quantity and sulfur content of each shipment of fuel oil and coal to be consumed and the F-factor, pollutant-specific emission factors, and emission equations for each boiler. Results of the weekly visual observation of the boiler stacks (BL4 and BL7) as specified in Condition III.B.1. of this section, along with any corrective actions. Fuel consumption of all sulfur containing fuels shall be calculated on a monthly basis, along with the current continuous, rolling 12-month total, and shall be available for inspection by the 15<sup>th</sup> of the following month.

These records will be maintained for a period of no less than five years, and shall be submitted to the South Central Regional Office on a monthly basis. Each report will be submitted within 30 calendar days of the end of the month.

(9 VAC 5-80-110 and Section D. 7. of 11/19/1991 Agreement with Burlington Industries, and 40 CFR 52.2465 (c)(96))

#### **IV. Process Equipment Requirements – Dye House- Low Pressure Dyeing**

(531, 536, 537, 549, 550, 519, 532, 533, 523, 534, 535, 512, 528, 529, 530, 548, 520, 521, 527, 518, 526, 553, 510, 511, 514, 515, 522, 545, 546, 547, 551, 552, 571, 572, 573, 574, 576, 577, 578)

##### **A. Limitations**

Emissions from the operation of low pressure dye becks 531, 536, 537, 549, 550, 519, 532, 533, 523, 534, 535, and 512 shall not exceed the limits specified below:

Volatile Organic Compounds	39.0 tons/yr
-------------------------------	--------------

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period

(9 VAC 5-80-110, and Condition 3 of 11/03/2000 Permit)

##### **B. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the monthly and annual VOC emissions to verify compliance with the emission limitation. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 4 of 11/03/2000 Permit)

#### **V. Process Equipment Requirements – Kenyon (TF4) and Relaxed Dryer (DR16)**

##### **A. Limitations**

1. The approved fuels for the Kenyon tenter frame (TF4) are natural gas or propane. A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110 and Condition 3 of 04/15/95 Permit)

2. Visible emissions from the Kenyon tenter frame (TF4) and Relaxed dryer (DR16) shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and Condition 7 of 4/14/95 Permit)

3. Emissions from the operation of the Kenyon tenter frame (TF4) and Relaxed dryer (DR16) shall not exceed the limits specified below:

Sulfur Dioxide	1.05 lbs/hr	2.2 tons/yr
Volatile Organic Compounds	30.36 lbs/hr	39.0 tons/yr
1,2,4-Trichlorobenzene	11.61 lbs/hr	

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 6 of 4/14/95 Permit)

4. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
  - Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns.

(9 VAC 5-80-110 and Condition 13 of 4/14/95 Permit)

5. If, for any reason, the permitted facility or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the Lynchburg Air Office within four (4) business hours of the occurrence. The portion of the facility which is subject to the provision of Rule 5-3 shall shut down immediately upon request of the DEQ. In addition, the owner shall provide a written statement, within fourteen (14) days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shut down.  
(9 VAC 5-80-110 and Condition 12 of 4/14/95 Permit)



## **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the Kenyon tenter frame (TF4) and Relaxed dryer (DR16) stacks shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the tenter frame or dryer, with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 10 percent opacity or less. If any of the observations exceed the opacity limitation of 10%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the unit resumes operation within the 10% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for each unit to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, and whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the units have not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required (9 VAC 5-80-110 E)

## **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. The yearly emissions of VOCs and SO<sub>2</sub> from the Kenyon tenter frame (TF4), calculated monthly as the sum of each consecutive twelve (12) month period.
2. The yearly emissions of VOCs from the Relaxed dryer (DR16), calculated monthly as the sum of each consecutive twelve (12) month period.
3. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110 and Condition 9 of 4/14/95 Permit)

## **VI. Process Equipment Requirements – Monforts Tenter Frame (TF5)**

### **A. Limitations**

1. The Monforts tenter frame (TF5) shall not operate more than 8,200 hours per year, calculated monthly as the sum of each consecutive 12 month period.  
(9 VAC 5-80-110 and Condition 4 of 2/17/2000 Permit)
2. The approved fuels for the tenter frame (TF5) are natural gas and propane. A change in the fuels may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 5 of 2/17/2000 Permit)
3. Visible emissions from the tenter frame (TF5) shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and Condition 8 of 2/17/2000 Permit)

4. Emissions from the tenter frame (TF5) shall not exceed the limits specified below:

1,2,4-Trichlorobenzene	8.79 lbs/hr	36.0 tons/yr
Volatile Organic Compounds	9.36 lbs/hr	38.4 tons/yr

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with the annual emission limits may be determined as stated in Condition Number VI.A.1. and VI.C.1.  
(9 VAC 5-80-110 and Condition 6 of 2/17/2000 Permit)

5. Emissions from the tenter frame (TF5) shall not exceed the limit specified below:

PM-10	6.65 lbs/hr	14.4 tons/yr
-------	-------------	--------------

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

Compliance with the annual emission limit shall be determined by material balance as stated in Condition Number VI.C.2.

(9 VAC 5-80-110 and Condition 7 of 2/17/2000 Permit)

6. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to process equipment which affect such emissions:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
  - b. Maintain an inventory of spare parts.
  - c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
  - d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request

(9 VAC 5-80-110 and Condition 16 of 2/17/2000 Permit)

## **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the Monforts tenter frame (TF5) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the Monforts tenter frame (TF5) with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the Monforts tenter frame (TF5) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 10 percent opacity or less. If any of the observations exceed the opacity limitation of 10%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the Monforts tenter frame (TF5) resumes operation within the 10% opacity limit.

3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for Monforts tenter frame (TF5) to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the Monforts tenter frame (TF5) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. The annual operating hours of the tenter frame (TF5), calculated monthly as the sum of each consecutive 12 month period, to demonstrate compliance with Condition Number VI.A.4.
2. The annual PM-10 emissions from the operation of the tenter frame (TF5), calculated monthly as the sum of each consecutive 12 month period, to demonstrate compliance with the annual limit in Condition Number VI.A.5. These emissions shall be calculated by material balance using the amount of fabric processed through the tenter frame (TF5) and a DEQ-approved emission factor.
3. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 9 of 2/17/2000 Permit)

## **VII. Process Equipment Requirements – Monforts Tenter Frame (TF6)**

### **A. Limitations**

1. The approved fuels for the tenter frame (TF6) are natural gas and propane. A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110 and Condition 3 of 12/23/1996 Permit)

2. Visible emissions from the tenter frame (TF6) process shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.  
(9 VAC 5-80-110 and Condition 6 of 12/23/1996 Permit)

3. Emissions from the operation of the tenter frame (TF6) shall not exceed the limits specified below:

Total Suspended Particulate	5.5 lbs/hr	9.6 tons/yr
PM-10	5.5 lbs/hr	9.6 tons/yr
Sulfur Dioxide	1.1 lbs/hr	3.5 tons/yr
Volatile Organic Compounds	18.7 lbs/hr	22.0 tons/yr
1,2,4-Trichlorobenzene	18.1 lbs/hr	20.1 tons/yr

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 5 of 12/23/1996 Permit)

4. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
  - Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns.

(9 VAC 5-80-110 and Condition 12 of 12/23/1996 Permit)

## **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the Monforts tenter frame stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the tenter frame (TF6) with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the tenter frame (TF6) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 10 percent opacity or less. If any of the observations exceed the opacity limitation of 10%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the tenter frame (TF6) resumes operation within the 10% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for each unit to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the tenter frame (TF6) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. The annual emissions of TSP/PM10, VOCs and SO2 from the Monforts tenter frame (TF6), each calculated monthly as the sum of the most recent 12 months.
2. The annual emissions of 1,2,4-Trichlorobenzene from the Monforts tenter frame (TF6), calculated monthly as the sum of the most recent 12 months.
3. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 8 of 12/23/1996 Permit)

## VIII. Process Equipment Requirements – Famatex Tenter Frames(TF1 and TF3)

### A. Limitations

1. Opacity from each of the tenter frame (TF1 and TF3) stacks shall be controlled by an ESP/Smog Hog as needed to meet the emissions standard in Condition VIII.A.2. The ESP/Smog Hog shall be provided with adequate access for inspections.  
(9 VAC 5-80-110 and 9 VAC 5-40-20E.)
2. Visible emissions from the tenter frames (TF1 and TF3) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A).  
(9 VAC 5-40-80 and 9 VAC 5-80-110)
3. Emissions from the operation of each of the tenter frames (TF1 and TF3) shall not exceed the limits specified below:

PM/PM10 8.1 lbs/hr

(9 VAC 5-80-110 and 9 VAC 5-40-260)

## B. Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the tenter frame (TF1 and TF3) stacks shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the tender frame with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the tender frame (TF1 and TF3) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the tender frame resumes operation within the 20% opacity limit.

3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for each stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the tenter frames have not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. A calendar year mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the tenter frames (TF1 and TF3). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

## **IX. Process Equipment Requirements – Bruckner Tenter Frame (TF7)**

### **A. Limitations**



1. Opacity from the tenter frame (TF7) stack shall be controlled by a fume oxidizer as needed to meet the emission standard in Condition IX.A.2. The fume oxidizer shall be provided with adequate access for inspection.  
(9 VAC 5-80-110 and 9 VAC 5-40-20E)
2. Visible emissions from tenter frame (TF7) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during period of startup, shutdown, or malfunction.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)
3. Emissions from the operation of the tenter frame (TF7) shall not exceed the limits specified below:

PM/PM10	8.1 lbs/hr
---------	------------

(9 VAC 5-80-110 and 9 VAC 5-50-10 )

#### **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the tenter frame (TF7) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the tenter frame (TF7) with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the tenter frame (TF7) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the tenter frame (TF7) resumes operation within the 20% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the tenter frame (TF7) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. A calendar year mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the tenter frame (TF7). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

## **X. Process Equipment Requirements – Bruckner Tenter Frame (TF8)**

### **A. Limitations**

1. Opacity from the tenter frame (TF8) stack shall be controlled by an ESP as needed to meet the emission standard in Condition X.A.2. The ESP shall be provided with adequate access for inspection  
(9 VAC 5-80-110 and 9 VAC 5-40-20E)

2. Visible emissions from the tenter frame (TF8) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during period of startup, shutdown, or malfunction.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)

3. Emissions from the operation of the Bruckner tenter frame (TF8) shall not exceed the limits specified below:

PM/PM10	8.1 lbs/hr
---------	------------

(9 VAC 5-80-110 and 9 VAC 5-50-10)

## B. Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the tenter frame (TF8) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the tenter frame (TF8) with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the tenter frame (TF8) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the tenter frame (TF8) resumes operation within the 20% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the tenter frame (TF8) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. An annual mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the tenter frame (TF8). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

## **XI. Process Equipment Requirements – Bruckner Tenter Frame (TF9)**

### **A. Limitations**

1. Opacity from the tenter frame (TF9) stack shall be controlled by a fume oxidizer as needed to meet the emission standard in Condition XI.A.2. The fume oxidizer shall be provided with adequate access for inspection.  
(9 VAC 5-80-110 and 9 VAC 5-40-20E)
2. Visible emissions from the tenter frame (TF9) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during period of startup, shutdown, or malfunction.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)
3. Emissions from the operation of the tenter frame (TF9) shall not exceed the limits specified below:

PM/PM10

10.1 lbs/hr

(9 VAC 5-80-110 and 9 VAC 5-50-10)

## **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the tenter frame (TF9) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the tenter frame (TF9) with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the tenter frame (TF9) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the tenter frame resumes operation within the 20% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the tenter frame (TF9) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

## **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. An annual mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the tenter frame (TF9). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

## **XII. Process Equipment Requirements – Dryer/Carbonizer (DR14)**

### **A. Limitations**

1. Visible emissions from the dryers (DR14) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A).  
(9 VAC 5-40-80 and 9 VAC 5-80-110)
2. Emissions from the operation of each of the dryers (DR14) shall not exceed the limits specified below:

PM/PM10	5.6 lbs/hr
---------	------------

(9 VAC 5-80-110 and 9 VAC 5-40-260)

### **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the dryer (DR14) stacks shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the dryer with visible emissions, resumes operation with no visible emissions, or,

2. conduct a visible emission evaluation (VEE) on the dryer (DR14) stacks with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the dryer resumes operation within the 20% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the dryer (DR14) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. An annual mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the dryers (DR14). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110)

### XIII. Process Equipment Requirements – Kenyon Pin Dryer (DR10)

### A. Limitations

1. Visible emissions from the Kenyon Pin dryer (DR10) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during period of startup, shutdown, or malfunction.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)

2. Emissions from the operation of the dryer (DR10) shall not exceed the limits specified below:

PM/PM10	5.9 lbs/hr
---------	------------

(9 VAC 5-80-110 and 9 VAC 5-50-10)

## B. Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the dryer (DR10) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the dryer vwith visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the dryer (DR10) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the dryer resumes operation within the 20% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.



The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the dryer (DR10) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. An annual mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the dryer (DR10). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

## **XIV. Process Equipment Requirements – Kenyon Dryer/carbonizer (DR17)**

### **A. Limitations**

1. Visible emissions from the dryer (DR17) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A), except during period of startup, shutdown, or malfunction.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)

2. Emissions from the operation of the dryer (DR17) shall not exceed the limits specified below:

PM/PM10

5.2 lbs/hr

(9 VAC 5-80-110 and 9 VAC 5-50-10)

## **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the dryer (DR17) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the dryer (DR17) with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the dryer (DR17) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the dryer resumes operation within the 20% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the dryer (DR17) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

## **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

1. An annual mass balance to calculate particulate matter (PM) and volatile organic compound (VOC) emissions from the dryer (DR17). These emissions shall be calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species.
2. Visual emission observation reports.
3. Records of malfunctions of equipment which may cause a violation of any part of this permit.
4. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

## **XV. Process Equipment Requirements –Flame Singer (FS22A)**

### **A. Limitations**

1. Particulate matter emissions from the lint removal step shall be controlled by a cyclone. The cyclone shall be provided with adequate access for inspection.  
(9 VAC 5-80-110 and Condition 3 of 11/10/1993 Permit)
2. Particulate matter emissions from the singed fiber removal step shall be controlled by a water spray scrubber. The water spray scrubber shall be provided with adequate access for inspection. The scrubber shall be equipped with a flow meter on the water to the sprays.  
(9 VAC 5-80-110 and Condition 4 of 11/10/1993 Permit)
3. The approved fuel for the flame singeing machine (FS22A) is propane. A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 5 of 11/10/1993 Permit)
4. The flame singeing machine (FS22A) shall not operate more than 8400 hours per year calculated monthly as the sum of each consecutive twelve (12) month period.  
(9 VAC 5-80-110 and Condition 6 of 11/10/1993 Permit)
5. Visible emissions from the three stacks serving the flame singeing machine (FS22A) shall not exceed 5% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.  
(9 VAC 5-80-110 and Condition 8 of 11/10/1993 Permit)

6. Emissions from the operation of the flame singeing machine (FS22A) shall not exceed the limits specified below:

Total Suspended	0.3 lbs/hr	1.3 tons/yr
Particulate		

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

Compliance with these limits shall be determined as stated in Condition numbers XV.A.4. and XV.A.5.  
(9 VAC 5-80-110 and Condition 7 of 11/10/1993 Permit)

7. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
  - Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns.

(9 VAC 5-80-110 and Condition 14 of 11/10/1993 Permit)

8. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum. The permittee shall maintain records of training provided including names of trainees, date of training and nature of training.  
(9 VAC 5-80-110 and Condition 15 of 11/10/1993 Permit)

## **B. Periodic Monitoring**

At least one time per week an observation of the presence of visible emissions from the flame singeing machine (FS22A) stacks shall be made. The presence of visible emissions shall require the permittee to:

- take timely corrective action such that the flame singeing machine (FS22A) with visible emissions, resumes operation with no visible emissions, or,

2. conduct a visible emission evaluation (VEE) on the flame singeing machine (FS22A) stack with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 5 percent opacity or less. If any of the observations exceed the opacity limitation of 5%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the flame singeing machine (FS22A) resumes operation within the 5% opacity limit.
3. If visible emissions observations conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for each stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the flame singeing machine (FS22A) has not been operated for any period during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the number of hours, calculated monthly as the sum of each consecutive 12 month period, of operation of the flame singeing machine (FS22A). The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 10 of 11/10/1993 Permit)

## **XVI. Process Equipment Requirements – Wool Combing (CM)**

### **A. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the monthly and yearly amount of lubricant used sufficient to calculate volatile organic compound and hazardous air pollutant emissions. Yearly

volatile organic compound emissions shall be calculated monthly as the sum of each consecutive 12 month period. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110)

## **XVII. Process Equipment Requirements – Final Inspection (FI)**

### **A. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the monthly and yearly amount of cleaner used sufficient to calculate volatile organic compound and hazardous air pollutant emissions. Yearly volatile organic compound hazardous air pollutant emissions shall be calculated monthly as the sum of each consecutive 12 month period. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110)

## **XVIII. Process Equipment Requirements - Carver Greenfield Wastewater Pretreatment (CG)**

### **A. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to an annual mass balance to calculate volatile organic compound emissions from the Carver Greenfield process. The emissions shall be calculated using a material balance on the amount of chemical consumed, the chemical lost to wastewater, chemical in the solids landfilled, and the amount of chemical in the lanolin shipped offsite. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110)

## **XIX. Process Equipment Requirements –Wastewater Treatment (WW)**

### **A. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to an annual mass balance to calculate volatile organic compound and hazardous air pollutant (HAP) emissions from the wastewater treatment process. The emissions shall be calculated using a material balance on the amount of materials (volatile organic compounds and HAPs) consumed. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110)

## **XX. Permit Shield & Inapplicable Requirements**

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
NA		

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.  
(9 VAC 5-80-140)

## **XXI. General Conditions**

### **A. Enforceability**

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.  
(9 VAC 5-80-110 N)

### **B. Permit Expiration**

This permit shall become invalid five years from the date of issuance. Permit expiration terminates the source's right to operate. The permittee shall submit an application for renewal of this permit no earlier than 18 months and no later than six months prior to the date of expiration of this permit. Upon receipt of a complete and timely application for renewal, this source may continue to operate subject to final action by the DEQ on the renewal application.

(9 VAC 5-80-110 D, 9 VAC 5-80-170B, and 9 VAC 5-80-80 F)

### **C. Recordkeeping and Reporting**

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements.
- b. The date(s) analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses.
- f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ every six months. The time periods to be addressed are the calendar months **January through June and July through December**. Each report must be postmarked within 30 days following each six-month reporting period. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report.
- b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:



- (1) Exceedance of emissions limitations or operational restrictions;
  - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
  - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

(9 VAC 5-80-110 F)

#### **D. Annual Compliance Certification**

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to DEQ and EPA a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The time period to be covered by the certification is the calendar months **January through December**. Each report must be postmarked within 30 days following each annual period. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. The identification of the methods or other means by the permittee for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data.
5. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)  
U. S. Environmental Protection Agency, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

#### **E. Permit Deviation Reporting**

The permittee shall notify the South Central Regional Office, within four daytime business hours of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the occurrence, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XXI.C.3. of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

#### **F. Failure/Malfunction Reporting**

If, for any reason, the affected facilities or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the South Central Regional Office, within four (4) daytime business hours of the occurrence. In addition, the owner shall provide a written statement, within 14 days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shutdown.

(9 VAC 5-80-250)

#### **G. Severability**

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

## **H. Duty to Comply**

The permittee shall comply with all terms and conditions of this permit, including those terms and conditions set forth in a tabular format. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.  
(9 VAC 5-80-110 G.2)

## **I. Need to Halt or Reduce Activity not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.  
(9 VAC 5-80-110 G.3)

## **J. Permit Action for Cause**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
(9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:
  - a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is potential of, a resulting emissions increase;
  - b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
  - c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emissions cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
  - d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;

- e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

#### **K. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9 VAC 5-80-110 G.5)

#### **L. Duty to Submit Information**

- 1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.  
(9 VAC 5-80-110 G.6)
- 2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.  
(9 VAC 5-80-110 K.1)

#### **M. Duty to Pay Permit Fees**

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.  
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

#### **N. Fugitive Dust Emission Standards**

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

#### **O. Startup, Shutdown, and Malfunction**

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

**P. Alternative Operating Scenarios**

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

**Q. Inspection and Entry Requirements**

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

**R. Reopening For Cause**

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

#### **S. Permit Availability**

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

#### **T. Transfer of Permits**

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.  
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)

#### **U. Malfunction as an Affirmative Defense**

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.
  - d. For malfunctions that occurred for one hour or more, the permittee submitted to the Board by the deadlines described in **Failure/Malfunction Reporting** above, a notice and written statement containing a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notice fulfills the requirement of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

(9 VAC 5-80-250)

#### **V. Permit Revocation or Termination for Cause**

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

#### **W. Duty to Supplement or Correct Application**

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)



## **X. Stratospheric Ozone Protection**

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.  
(40 CFR Part 82, Subparts A-F)

## **Y. Accidental Release Prevention**

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.  
(40 CFR Part 68)

## **Z. Changes to Permits for Emissions Trading**

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9 VAC 5-80-110 I)

## **AA. Emissions Trading**

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)